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This reaction is not a complete reversible reaction. Thus a phenomenon occurs involving the suspension of discharge reaction at a valence (oxidation number) of 2.2 when nickel oxyhydroxide (NiOOH) is converted back to nickel hydroxide (Ni (OH)₂) during discharge. Accordingly, the negative electrode has always electricity left therein in an amount corresponding to a valence of 0.2. This remaining electricity makes no contribution to battery capacity.